## NAME

Module 1	Number Sense
Lesson 2	<b>Divisibility Rules</b>

## Lesson Objective

• Use divisibility rules to determine if a number is a factor of another number (2, 3, 4, 5, 6, 9, and 10).

**Subtopic 1, 2 & 3** Divisibility by 2, 4, 5 & 10

A number is **divisible** by another number if after dividing, the remainder is **zero**.

**Divisibility Rules** 

- A number is divisible by 2 if the last digit is **0**, **2**, **4**, **6**, **or 8**.
- A number is divisible by 5 if the last digit is 0 or 5.
- A number is divisible by 10 if the **last digit** is 0.
- A number is divisible by 4 if the last **two digits** are divisible by 4.



Is 546 divisible by 2, 5, or 10? divisible by 2, not by 5 or 10



Is 430 divisible by 2, 5, or 10? divisible by 2, 5, and 10



Is 425 divisible by 2, 4, 5, or 10? **divisible by 5, not by 2, 4, or 10** 



Is 636 divisible by 2, 4, 5, or 10? divisible by 2 and 4, not by 5 or 10

Subtopic 4 & 5

Divisibility by 3, 6 & 9

**Divisibility Rules** 

- A number is divisible by 9 if and only if the **sum** of its digits is **9**.
- A number is divisible by 3 if and only if the **sum** of its digits is **divisible by 3**.
- A number is divisible by 6 if and only if it is divisible by 2 and by 3.

5

Is 876 divisible by 2, 3, 4, 5, 6, 9, or 10? divisible by 2, 3, 4, and 6, not by 5, 9, or 10 Lesson

Notes

1.2